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प्लाज़्मा अनुसंधान संस्थान  
INSTITUTE FOR PLASMA RESEARCH  
परमाणु ऊर्जा विभाग, भारत सरकार का एक सहायता



प्राप्त संस्थान  
An Aided Institute of Department of Atomic Energy,  
Government of India

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दूरभाष: (079) 2396 2020/2021/2028  
फैक्स: 91-079-23962277  
वेब: [www.ipr.res.in](http://www.ipr.res.in)

NEAR INDIRA BRIDGE, BHAT  
DIST. GANDHINAGAR - 382 428 (INDIA)  
Phone: (079) 2396 2020/2021/2028  
Fax : 91-079-23962277  
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### ENQUIRY

ENQUIRY NO : IPR/EQL/19-20/314  
Date : 13-11-2019

**Due on : 12-12-2019 by 1:00 PM IST**

Please send your offer in sealed envelope specifying Enquiry No, Date & Due Date,  
ALONG WITH your credentials for the following items:

#### Important Note:

Please note that e-mail quotations are not acceptable however you may send your queries (if any) to [localpurchase@ipr.res.in](mailto:localpurchase@ipr.res.in)

Please ensure your sealed quotation reaches this office not later than above mentioned due date and time.

Kindly go through the following documents properly before quoting which are available on the IPR web portal i.e., [http://www.ipr.res.in/documents/tender\\_terms.html](http://www.ipr.res.in/documents/tender_terms.html) / attached herewith.

- 1) Instructions to the bidders & Terms and conditions (refer Form No: **IPR-LP-01.V4**)
- 2) Bidding format

**GST for Goods and Services (IGST/CGST/SGST TAX BENEFITS):** Please refer **clause no: 8** of Form No: **IPR-LP-01.V4**

#### QUOTATION SHOULD BE ADDRESSED TO PURCHASE OFFICER ONLY

Sr No	Description	Quantity
1	Extruded type Heavy duty square Aluminium Profile with T-slot Size 40 x 40 mm	160.0 Mtrs.
2	Extruded type Heavy duty square Aluminium Profile with T-slot Size 60 x 60 mm	60.0 Mtrs.
3	40 Series Die Cast Bracket 40X40	500.0 Nos.

4	60 Series Die Cast Bracket 60×60	250.0 Nos.
5	Fastening Set M6 with set of SS material T nut and plated Allen screw with washer or Mechanical Interface should compatible to profile size 40 x 40 mm	1000.0 Set
6	Fastening Set M8 with set of SS material T nut and plated Allen screw with washer or Mechanical Interface should compatible to profile size 60 x 60 mm	500.0 Set
7	End Cap(40×40)section	50.0 Nos.
8	End Cap(60×60)section	50.0 Nos.
9	Levelling Foot for Aluminium Profile with T-slot Size 40 x 40 mm	50.0 Nos.
10	Levelling Foot for Aluminium Profile with T-slot Size 60 x 60 mm	50.0 Nos.

Note: Note : (1) Unsigned quotations are not acceptable.  
Quotation should be submitted duly signed on ALL PAGES invariably  
(2) TDS as per CGST Act : As per provisions of section No. 51 of the CGST Act 2017, TDS @ 2% (IGST 2% or CGST 1% and SGST 1%) will be deducted while making payment to the suppliers where total value of orders/contracts/work orders exceeds Rs. 2.5 Lakhs, in the event of order in Indian Rupees

Delivery Time:-04 weeks

Encl: As Per Attachment

Sd/-

Mr. D. Ramesh  
Purchase Officer-II

**Information to Vendors:** We are working towards a single platform for our future requirement. Hence, please refer IPR website i.e, <http://www.ipr.res.in/documents/tendersenq.html> for our future requirement.

## Technical Specification for Supply of T slot Aluminium Extruded Profiles and its Accessories

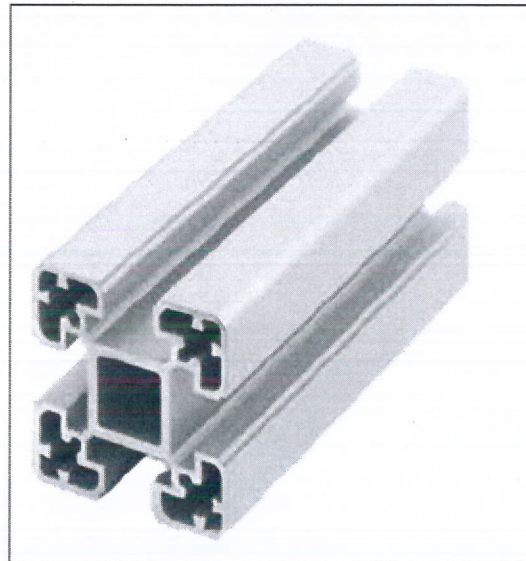
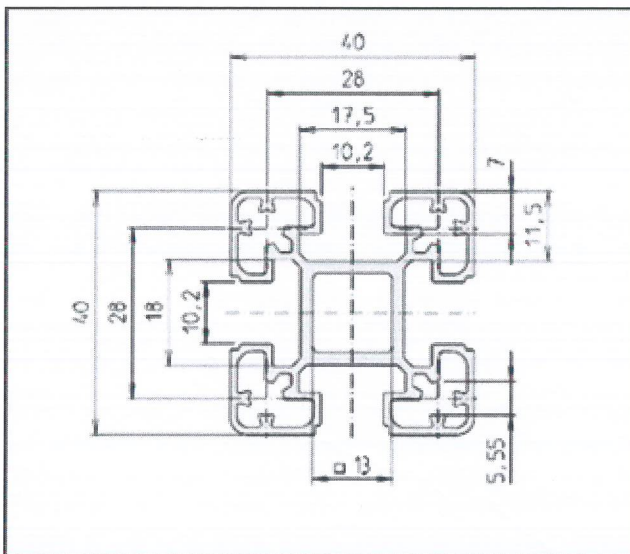
### 1. SCOPE OF SUPPLY:

This specification lists the technical requirements for supply of extruded aluminum profiles and its accessories.

### 2.0 TECHNICAL:

#### 2.1 Functional Requirements

These profiles shall be used for assembling load-bearing structures using the fasteners and fittings. The profiles shall have appropriate grooves for assembling T-bolts etc. for making modular framework structures in different design. The Indicative cross sectional view of 40mmx40mmx3000mm are presented below.



Sr. No: 1 Dimensions : Aluminium square section 40 mm X 40 mm X 3000 mm cross sectional view (All dimensions in mm typical) –typical cross sectional view (indicative)

## 2.2 Specifications

Important specifications of extruded aluminium profiles are given in Table 1.

Sr. No.	Parameter	Description
1.	Material	Aluminum alloy 6063-T5(or any Al alloy)
2.	Manufacturing process	Annealed extruded profile
3.	Tensile strength	$\geq 225 \text{ N/mm}^2$
4.	Modulus of elasticity	$\geq 65000 \text{ N/mm}^2$
5.	Brinell hardness	$\geq 70 \text{ HB}$
6.	Straightness tolerance	0.5 mm / meter (maximum)
7.	Cross profile dimensional tolerance	$\pm 1 \text{ mm}$ (maximum)

## 2.3 Dimensions and Quantity

The extruded aluminium profiles consist of the items mentioned in Table 2. All profiles shall be supplied with groove cover.

Sr. No.	Item Description	Quantity
<b>1.0</b>	<b>Aluminium Profile</b>	
1.1	Extruded type Heavy duty square Aluminium Profile with T-slot Size 40 x 40 mm Each section length ~3 metre Dimension of profile: 40 x 40 mm, 4 slots Length of profile: 2.9/5.8 meter, Mass: >2 kg/m Mechanical Interface should be compatible to item No 2.3	160metre
1.2	Extruded type Heavy duty square Aluminium Profile with T-slot Size 60 x 60 mm Each section length ~3 metre Dimension of profile: 60 x 60 mm, 4 slots Length of profile: 2.9/5.8 meter, Mass: >3.8 kg/m	60 metre

	Mechanical Interface should compatible to item No 2.4	
<b>2.0</b>	<b>Aluminium Profile accessories</b>	
2.1	40 Series Die Cast Bracket 40X40 Suitable With Item No 1.1 & 2.3	500 NOS
2.2	60 Series Die Cast Bracket 60×60 Suitable with Item No 1.2 & 2.4	250 NOS
2.3	Fastening Set M6 with set of SS material T nut and plated Allen screw with washer or Mechanical Interface should compatible to item No 1.1	1000 Set
2.4	Fastening set M8 with set of SS material T Nut and Plated Allen screw with washer or Mechanical Interface should compatible to item No 1.2	500 Set
2.5	End Cap(40×40)section Suitable with item no 1.1	50 NOS
2.6	End Cap(60×60)section Suitable with item No 1.2	50 NOS
2.7	Levelling Foot M12 & M8 (With set of inside screw for mounting leveling pad) suitable with Item 1.1 & 1.2 or other suitable levelling mechanism compatible with Item 1.1 & 1.2	50 NOS (each)

### **3. DELIVERY PERIOD:**

The delivery shall be made within 4weeks after placement of the purchase order.

### **4. PACKAGING & TRANSPORT:**

Aluminum profiles & its accessories must be properly packed in wooden or suitable container to avoid any damage during transport.

### **5. WARRANTY:**

Aluminium profiles & its accessories should have at least 12 months of warranty period form the date of acceptance at IPR.

### **6. ACCEPTANCE TEST AT IPR:**

After delivery of shipment at IPR, Aluminum profile & its accessories shall be thoroughly inspected for any visual damage.

## Compliance Form

Sr. No.	IPR Requirement	Vendor's Response(write exact size/no whenever possible) " Kindly use technical values avoid using words "yes/complied/ok/agree /confirm "
<b>1.0 Aluminium Profile</b>		
1.1	<p>Extruded type Heavy duty square Aluminium Profile with T-slot Size 40 x 40 mm</p> <p>Each section length ~3 metre</p> <p>Dimension of profile: 40 x 40 mm,4 slots Length of profile: 2.9/5.8 meter, Mass: &gt;2 kg/m</p> <p>(Mechanical Interface should compatible to item No 2.3)</p>	
1.2	<p>Extruded type Heavy duty square Aluminium Profile with T-slot Size 60 x 60 mm</p> <p>Each section length ~3 metre</p> <p>Dimension of profile: 60 x 60 mm,4 slots Length of profile: 2.9/5.8 meter, Mass: &gt;3.8 kg/m</p> <p>(Mechanical Interface should compatible to item No 2.4)</p>	
1.3	Tensile strength ( $\geq 225 \text{ N/mm}^2$ )	
1.4	Modulus of elasticity( $\geq 65000 \text{ N/mm}^2$ )	
1.5	Brinell hardness( $\geq 70 \text{ HB}$ )	
<b>2.0 Aluminium Profile accessories</b>		